

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/014684 A1

(51) International Patent Classification⁷: **C08G 18/10**,
18/36, 18/42

(21) International Application Number:
PCT/EP2004/008145

(22) International Filing Date: 21 July 2004 (21.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
06/09575 1 August 2003 (01.08.2003) FR

(71) Applicant (for all designated States except US): **SAINT-GOBAIN PERFORMANCE PLASTICS CHAINEUX** [BE/BE]; Avenue du Parc 18, B-4650 Chaineux (BE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MOINEAU, Georges** [BE/US]; 8011 Ambassador Drive, Westboro, MA 01581 (US). **MERTENS, Marc** [BE/BE]; Fond Gonet n° 12, B-4900 Spa (BE). **PETIT, Dominique** [BE/BE]; 60, rue de Housse, B-4671 Blegny (BE).

(74) Agent: **MULLER, René**; Saint-Gobain Recherche, 39, quai Lucien Lefranc, F-93300 Aubervilliers (FR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

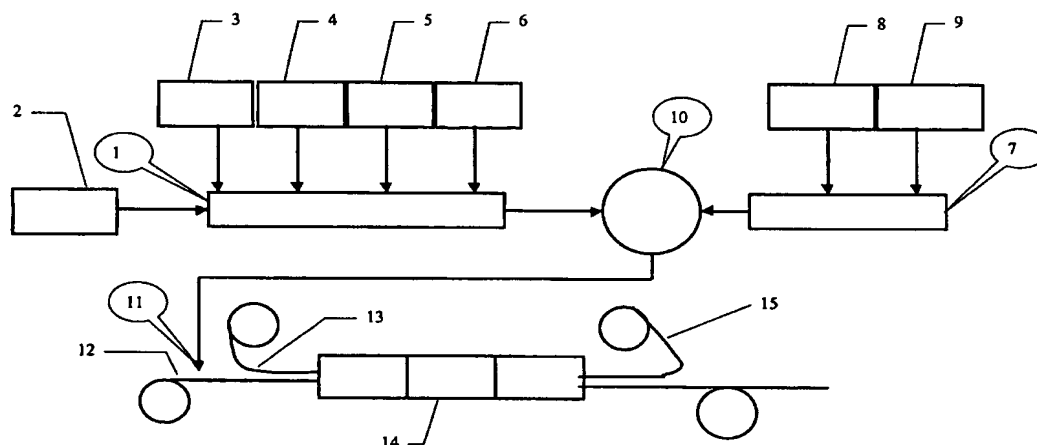
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **POLYURETHANE FOAM, METHOD FOR THE PRODUCTION AND USE THEREOF**



(57) Abstract: The invention relates to a flexible watertight polyurethane foam obtained by reacting a polyol component comprising at least one hydrophobic polyol and a polyisocyanate component in the presence of a foaming agent. The invention is characterized in that it has a compression strength of less than or equal to 12kPa for 50 % compression. The density of the inventive foam is advantageously less than or equal to 150kg/m³, preferably 60kg/m³. The foam can be obtained by method for the production of couched foam or by moulding. The inventive foam can be used as a watertight joint.